



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B76/P2 BYPASS RATIO: 8.6
 UNIQUE ID NUMBER: 16GE168 PRESSURE RATIO (π_{00}): 47.5
 COMBUSTOR: TAPS
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 349.2

REGULATORY DATA **** DATA SUPERSEDED **** SEE FOLLOWING UID FOR REVISED DATA: **17GE179**

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|-----|------|-----------------|--------------|
| D _p /F ₀₀ (g/kN) or SN | 0.6 | 17.5 | 57.3 | 0.8 |
| AS % OF ORIGINAL LIMIT | 3.2 | 14.8 | 42.4 | 4.4 |
| AS % OF CAEP/2 LIMIT (NO _x) | | | 53.0 | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | 56.1 | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | 60.9 | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | 67.3 | |

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 - OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

| MODE | POWER SETTING (%F ₀₀) | TIME (minutes) | FUEL FLOW (kg/s) | EMISSIONS INDICES (g/kg) | | | SMOKE NUMBER |
|--|-----------------------------------|----------------|------------------|--------------------------|-----------|-----------------|--------------|
| | | | | HC | CO | NO _x | |
| TAKE-OFF | 100 | 0.7 | 2.790 | 0.03 | 0.05 | 46.90 | 0.2 |
| CLIMB OUT | 85 | 2.2 | 2.262 | 0.02 | 0.09 | 26.78 | 0.2 |
| APPROACH | 30 | 4.0 | 0.709 | 0.04 | 1.53 | 11.78 | 0.4 |
| IDLE | 7 | 26.0 | 0.223 | 0.36 | 13.44 | 5.04 | 0.1 |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 934 | 140 | 4980 | 17251 | - |
| NUMBER OF ENGINES | | | | 1 | 1 | 1 | 1 |
| NUMBER OF TESTS | | | | 3 | 3 | 3 | 3 |
| AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX) | | | | 0.4 | 14.3 | 49.4 | 0.6 |
| SIGMA (D _p /F ₀₀ in g/kN, or SN) | | | | 0.0 | 0.0 | 0.3 | 0.3 |
| RANGE (D _p /F ₀₀ in g/kN, or SN) | | | | 0.38-0.43 | 14.2-14.3 | 49.1-49.7 | 0-0.97 |

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT All POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT All POWER SETTINGS

ATMOSPHERIC CONDITIONS

| | |
|----------------------|-----------------|
| BAROMETER (kPa) | 98.1-98.5 |
| TEMPERATURE (K) | 295.1-298.8 |
| ABS HUMIDITY (kg/kg) | 0.01189-0.01439 |

FUEL

| | |
|----------|-------|
| SPEC | Jet A |
| H/C | 1.89 |
| AROM (%) | 15.4 |

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: General Electric Company
 TEST LOCATION: PTO, Ohio
 TEST DATES: 19/06/2012-21/06/2012

NO_x REGULATION PARAGRAPH

| | |
|---|-------------------|
| | 2.3.2 c) (CAEP/4) |
| | 2.3.2 d) (CAEP/6) |
| x | 2.3.2 e) (CAEP/8) |

REMARKS

1. Ref. GE REPORT R2016AE118/Rev. 0
2. Certification in accordance with Part III, Chapter 2, of Amendment 8 of ICAO Annex 16 Vol. II.
3. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

Compliance with Fuel Venting requirements: x ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)